

CLASSIFICATION:
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BUDGET ITEM JUSTIFICATION SHEET
P-40

DATE:
February 2004

APPROPRIATION/BUDGET ACTIVITY

Weapons Procurement, Navy/BA-3 Torpedo and Related Equipment

P-1 ITEM NOMENCLATURE

MK 48 ADCAP MODS Torpedo BLI: 322500 SBHD: H3D1

Program Element for Code B Items:

0204284N

Other Related Program Elements

0205632N Heavyweight Torpedo Development

	Fy2002 & Prior	ID Code	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Program
QUANTITY MODS	805	A	105	76	78	0	0	0	0	0	1,064
QUANTITY CBASS	0	B	0	15	15	84	106	136	142	765	1,263
COST (\$M)	\$389.6		\$60.6	\$59.9	\$61.2	\$62.1	\$63.1	\$64.7	\$66.1	\$479.4	\$1,306.7
Initial Spares (\$M)			\$3.0	\$6.7	\$6.4	\$5.6	\$4.1	\$3.3	\$3.3	CONT.	\$0.0

ITEM DESCRIPTION/JUSTIFICATION:

This line item procures Modification Kits for the MK48 ADCAP MODs including the Common Broadband Advanced Sonar System (CBASS) upgrade.

The MK48 ADCAP MODS program incorporates both a Guidance and Control (G&C) modification and a Torpedo Propulsion Upgrade (TPU) modification to the baseline ADCAP system. The G&C Modification addresses the need to increase memory and processing capacity of the G&C hardware and to replace obsolete and sunset technology electronic component parts. The increased capacity is required for future advanced signal processing techniques that will be needed for performance upgrades in shallow water target detection/classification. The TPU addresses the Navy's operational requirement for a quieter ADCAP torpedo. These modifications will allow the MK48 ADCAP torpedo to operate effectively in adverse environments, thus enabling the MK48 ADCAP torpedo to counter enemy submarine threats into the 21st century.

The Common Broadband Advanced Sonar System (CBASS), starting in FY04 with the purchase of 15 LRIP units, will incorporate into the ADCAP MODs torpedo a new wide band sonar system and software algorithms. These new elements will provide the capability to transmit and receive over a wide frequency band to take advantage of broadband signal processing techniques. These improvements are necessary to introduce current and future improvements in advanced threat countermeasures capabilities. All FY06 and FY07 CBASS units include the procurement of the Torpedo Propulsion Upgrade, required for compatibility with the Guidance and Control modifications. This results in a higher unit cost in those years.

P-1 SHOPPING LIST

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WEAPONS SYSTEM COST ANALYSIS P-5						Weapon System						DATE: February 2004			
APPROPRIATION/BUDGET ACTIVITY Weapons Procurement, Navy BA-3 Torpedo and Related Equipment						ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD MK 48 ADCAP MODS Torpedo BLI: 322500 SBHD: H3D1								
COST CODE	ELEMENT OF COST	ID Code													
			FY 2002 & prior yrs			FY 2003			FY 2004			FY 2005			
			Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
D1001	ADCAP MODS CBASS (Contractor, Installation, ECP, TI)	A B	805	17	138,907	105	295	31,016	76 15	311 503	23,659 7,540	78 15	308 499	24,047 7,481	
D1003	Support and Ancillary Equipment				23,942			2,939			3,007			3,187	
D1830	Production Engineering (Contractor and In House)				132,189			12,811			12,651			12,619	
D1860	Acceptance T&E (Contractor and In House)				94,554			13,858			13,066			13,851	
					389,592			60,624			59,923			61,185	

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)						Weapon System		A. DATE February 2004		
B. APPROPRIATION/BUDGET ACTIVITY Weapons Procurement, Navy BA-3 Torpedo and Related Equipment					C. P-1 ITEM NOMENCLATURE MK 48 ADCAP MODS Torpedo BLI: 322500				SUBHEAD SBHD: H3D1	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY03 MK48 MOD6	105	295	NAVSEA	N/A	SS/FP	Raytheon Systems Corporation	Nov-02	Aug-04	YES	
FY04 MK48 MOD6	76	311	NAVSEA	N/A	SS/FP	Raytheon Systems Corporation	Apr-04	Jan-06	YES	
FY04 CBASS	15	503	NAVSEA	N/A	SS/FP	Raytheon Systems Corporation	Apr-04	Oct-05	YES	
FY05 MK48 MOD6	78	308	NAVSEA	N/A	SS/FP	Raytheon Systems Corporation	Dec-04	Sep-06	YES	
FY05 CBASS	15	499	NAVSEA	N/A	SS/FP	Raytheon Systems Corporation	Dec-04	Jun-06	YES	
D. REMARKS Unit cost reflected in this budget includes install cost from prior year buys. The quantity installed in any given year is different from the procurement quantity.										